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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,414	03/01/2002	Chad Yau	A-70834/MAK	3442
75	590 03/25/2003			
Michael A. Kaufman Flehr Hohbach Test Albritton & Herbert LLP Suite 3400 Four Embarcadero Center			EXAMINER	
			THAI, LUAN C	
San Francisco, CA 94111-4187			ART UNIT	PAPER NUMBER
			2827	
			DATE MAILED: 03/25/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summers	10/087,414	YAU, CHAD
Office Action Summary	Examiner	Art Unit
The MAN DIO DATE	Luan Thai	2827
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wi	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status	ION.  FR 1.136(a). In no event, however, may a non.  on.  , a reply within the statutory minimum of thirty  period will apply and will expire SIX (6) MON	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.
1) Responsive to communication(s) filed on	21 /00/200 0000	
0-11		
Zb)	This action is non-final.	
Since this application is in condition for a closed in accordance with the practice ur Disposition of Claims	illowance except for formal matt nder <i>Ex parte Quayle</i> , 1935 C.D	ters, prosecution as to the merits is 0. 11, 453 O.G. 213.
4) $\boxtimes$ Claim(s) <u>1-12</u> is/are pending in the applic	ation.	
4a) Of the above claim(s) is/are with		
5) Claim(s) is/are allowed.	onoidoration.	
6)⊠ Claim(s) <u>1,3-5,9 and 11</u> is/are rejected.		
7) Claim(s) <u>2,6-8,10 and 12</u> is/are objected to	<b>)</b> .	
8) Claim(s) are subject to restriction as Application Papers	nd/or election requirement.	
9) The specification is objected to by the Exan	niner.	
10) The drawing(s) filed on <u>01 March 2002</u> is/ar	e: a)⊠ accepted or b)⊡ objected	to by the Examiner.
Applicant may not request that any objection t	o the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on	is: a)∐ approved b)∐ dis	approved by the Examiner.
If approved, corrected drawings are required in 12) ☐ The oath or declaration is objected to by the	Treply to this Office action.	
Priority under 35 U.S.C. §§ 119 and 120	LXaminer.	
	olom mulault.	
13) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eigh phonity under 35 U.S.C. §	119(a)-(d) or (f).
	ombo bossi i	
== a serious suprious of the priority document	ents have been received.	
- The state of the priority docume	rice it also been received in App	lication No
3. Copies of the certified copies of the p application from the International * See the attached detailed Office action for a I	flority documents have been re Bureau (PCT Rule 17.2(a)). ist of the certified copies not rec	ceived in this National Stage
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. & 1	119(a) (to a province all accellents)
a) in the translation of the foreign language in	provisional application has been	
15) Acknowledgment is made of a claim for domestachment(s)	solic priority under 35 U.S.C. §§	120 and/or 121.
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)		nmary (PTO-413) Paper No(s) mal Patent Application (PTO-152)
Information Disclosure Statement(s) (PTO-1449) Paper No(s)	) 6)  Other:	
200 (D 04 04)	Action Summary	Part of Paper No. 4

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### **DETAILED ACTION**

#### Election/Restrictions

- 1. Applicant's election without traverse of Group II, claims 1-12, in Paper No. 3 are acknowledged.
- 2. Claims 13-20 have been canceled (paper No. 3).

#### Oath/Declaration

The declaration filed 03/01/02 is acceptable.

### Claim Objections

4. Claim 9 is objected to because of the following informalities:

The recitations "CE" in claim 9, should be changed to -CS--.

In claim 1, line 15, the recitation "units" should be changed to -unit--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

<sup>(</sup>e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 1, 3-5, 9 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Kang (6,242,285, applicant admitted prior art).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

Regarding claims 1, 3-5, 9 and 11, Kang (see specifically figures 3, 4A-4B-4D-4E) discloses a method for forming a stacked package of an upper semiconductor unit IC-B and a lower semiconductor unit IC-A having identical lead layouts, the method comprising: (a) flattening leads of the upper semiconductor package unit IC-B (Col. 4, lines 10+ and lines 40+); (b) shortening a length of a chip-select lead (CS) of the upper package unit IC-B such that this chip-select lead does not contact a lead of the lower package unit when the upper package unit is stacked atop the lower package unit in the same orientation (see figure 4A, Col. 3, lines 60+, Col. 6, lines 42+, lines 66+, Col. 7, lines 1+); (c) stacking the upper package unit IC-B on the lower package unit IC-A in the same orientation (Col. 6, lines 20+); (d) forming a direct electrical connection between the chip-select lead (CS) and a not-connected lead (NC) as shown in figure 4D (Col. 7, lines 22+); and (e) forming direct electrical connections between leads of the upper package unit and corresponding leads of the lower package unit by soldering, excluding the chip-select lead CS (Col. 6, lines 3+ and lines 21+).

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## Allowable Subject Matter

7. Claims 2, 6-8, 10 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter:

The prior art taken either singly or in combination fails to anticipate or fairly suggest:

- a) a method step of forming the direct electrical connection by *soldering* the two leads of the upper semiconductor package unit, as recited in claims 2 and 6,
- b) a method step of forming a direct electrical connection between a clockenable lead and not-connected lead of the upper semiconductor package unit, as recited in claims 7 and 8,
- c) a method step of shortening a length of a clock-enable lead of the upper semiconductor package unit, as recited in claim 10, and
- d) a method step of forming direct electrical connections between leads of the upper package unit and corresponding leads of the lower package unit excluding selecting the *clock-enable lead*, as recited in claim 12, especially when these limitations are considered within the specific combination claimed.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is (703) 308-1211. The examiner can normally be reached on 7:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Luan Thai

March 24, 2003

Thadrian